

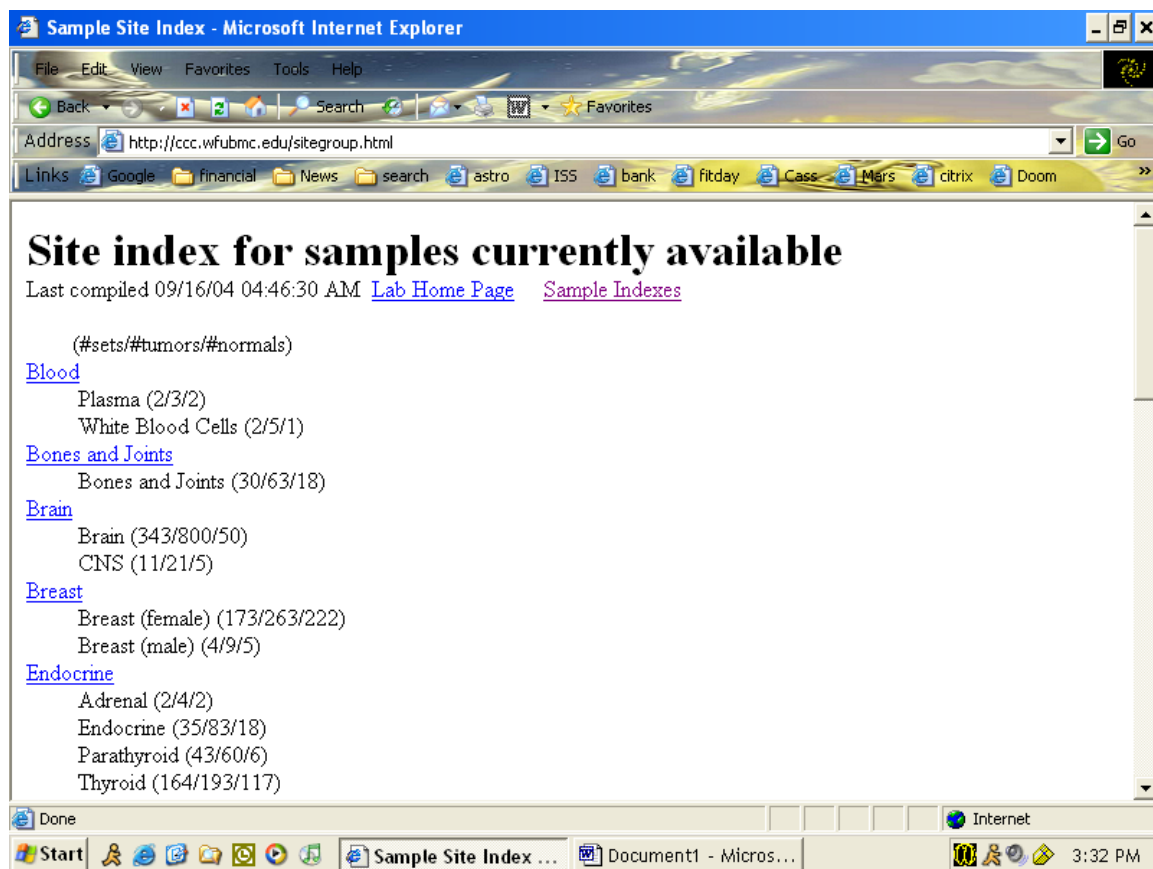
## WFU Tumor Bank Use Case Scenarios

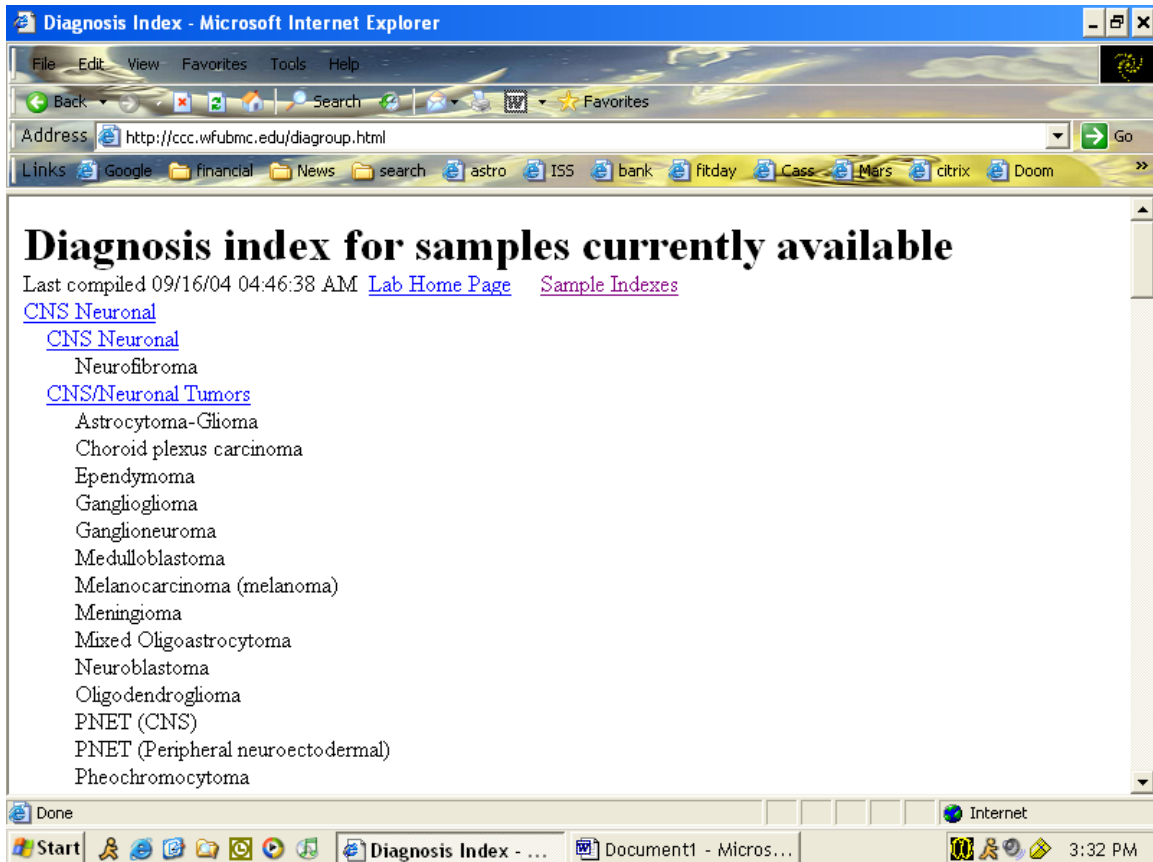
Rather than hypothetical cases, I would like to submit the last two cases we did, and how they were done. This may be more information than is needed, but might also be useful. These are (embarrassingly simple cases) but our system is embarrassingly young and simple, so it is the best I can provide within our experience.

### Background:

The Tumor Bank at Wake Forest University recently developed an in house SQL database application containing its sample sets. This is a relative simple system, built in a hurry to replace a single excel file. The primary goal of this system was to make information available to researchers via the intranet.

To that end, the database is exported to static web pages each morning. There are four main pages. The tumor by site index page and tumor by diagnosis index page each link to the all tissues by site and diagnosis pages, bookmarked to the correct sub table. Each subtable has a link to an excel flat file version of the table that the researcher can download and further analyze.





Tissue by diagnosis - Microsoft Internet Explorer

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Address <http://ccc.wfubmc.edu/diagnosis.html#417> Go

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CNS/Neuronal Tumors [Return to Diagnosis Index](#)

[Download this table in excel](#) Astrocytoma-Glioma

Lab_ID_#	Diagnosis	Site of sample	Date	#Samples	#Normals
2004-141	Astrocytoma-Glioma Brain residual, radiation effects	Brain Right Temporal	04/23/04	3	0
2004-142	Astrocytoma-Glioma Brain recurrent, radiation-induced changes	Brain	04/23/04	3	0
2004-143	Astrocytoma-Glioma Brain inoperable progressive	Brain left thalamic	04/23/04	1	0
2004-144	Astrocytoma-Glioma Brain multiforme	Brain	04/23/04	1	0
2004-145	Astrocytoma-Glioma Brain multiforme	Brain	04/23/04	1	0
2004-146	Astrocytoma-Glioma Brain multiforme	Brain recurrent	04/23/04	2	0
2004-149	Astrocytoma-Glioma Brain Glioblastoma,multiforme, ring enhancing	Brain gemistocytic astrocytoma, grade 4	04/23/04	2	0
2004-151	Astrocytoma-Glioma Brain multiforme, progressive	Brain glioblastoma multiforme	04/23/04	3	0
2004-152	Astrocytoma-Glioma Brain	Brain R. Frontal. span. hx seizures	04/23/04	2	0

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Tissue by site - Microsoft Internet Explorer

Address: http://ccc.wfubmc.edu/samples.html#Brain

Brain [Return to Site Index](#)

[Download this table in excel](#) Brain

Lab_ID_#	Diagnosis	Site of sample	Date	#Samples	#Normals
1999-36	Meningioma Brain	Brain Tumor	03/25/99	16	0
2004-140	Meningioma Brain	Brain	04/23/04	4	0
2004-141	Astrocytoma-Glioma Brain residual, radiation effects	Brain Right Temporal	04/23/04	3	0
2004-142	Astrocytoma-Glioma Brain recurrent, radiation-induced changes	Brain	04/23/04	3	0
2004-143	Astrocytoma-Glioma Brain inoperable progressive	Brain left thalamic	04/23/04	1	0
2004-144	Astrocytoma-Glioma Brain multiforme	Brain	04/23/04	1	0
2004-145	Astrocytoma-Glioma Brain multiforme	Brain	04/23/04	1	0
2004-146	Astrocytoma-Glioma Brain multiforme	Brain recurrent	04/23/04	2	0
2004-147	Oligodendroglioma Brain grade II, recurrent	Brain	04/23/04	5	0
2004-148	Renal Cell Carcinoma Kidney Metastatic	Brain necrosis, gliosis	04/23/04	1	0
2004-149	Astrocytoma-Glioma Brain Glioblastoma, multiforme, ring enhancing	Brain gemistocytic astrocytoma, grade 4	04/23/04	2	0

Done Internet

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#### Case use scenario 1 (user solution)

Researcher wants a list of available brain tissues from patients diagnosed with meningioma.

To do this, the researcher can simply click on brain in the site index, then download the table in excel and filter on meningioma. Alternatively they may go to the meningioma diagnosis sub table and filter the excel file on brain.

In practice, while the tool has been used this way, more often the researcher will ignore the site, call the tumor bank and ask them to do the extraction.

#### Case use scenario 2 (systems analyst solution)

Researcher wants all prostate tissue from patients on a specific clinical trial.

Because no patient identifiers are available on the intranet pages, the systems analyst must do this. To do this, an extraction from the clinical trials database is performed and a simple set relation to command issued from the tissue tables based on medical record number. Tissues with matching medical record numbers are copied (without PHI) to an excel file and emailed to the researcher.